

T. Bhatti

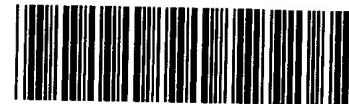
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AUG 14 2002

Page 1 of 8

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1627

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/676,783

DATE: 07/22/2002

TIME: 10:30:41

Input Set : N:\RULE60\VERNETTE\_R60\09676783.raw

Output Set: N:\CRF3\07222002\I676783.raw

SEQUENCE LISTING

4 (1) GENERAL INFORMATION:

6 (i) APPLICANT: MCBRIDE, William J.  
7 GRIFFITHS, Gary L.

9 (ii) TITLE OF INVENTION: RADIOMETAL-BINDING PEPTIDE ANALOGUES

11 (iii) NUMBER OF SEQUENCES: 34

13 (iv) CORRESPONDENCE ADDRESS:

14 (A) ADDRESSEE: FOLEY & LARDNER  
15 (B) STREET: 3000 K Street, N.W.  
16 (C) CITY: Washington  
17 (D) STATE: D.C.  
18 (E) COUNTRY: U.S.A.  
19 (F) ZIP: 20007-5109

21 (v) COMPUTER READABLE FORM:

22 (A) MEDIUM TYPE: Floppy disk  
23 (B) COMPUTER: IBM PC compatible  
24 (C) OPERATING SYSTEM: PC-DOS/MS-DOS  
25 (D) SOFTWARE: PatentIn Release #1.0, Version #1.30

27 (vi) CURRENT APPLICATION DATA:

C--> 28 (A) APPLICATION NUMBER: US/09/676,783

C--> 29 (B) FILING DATE: 02-Oct-2000

30 (C) CLASSIFICATION:

32 (vii) PRIOR APPLICATION DATA:

33 (A) APPLICATION NUMBER: 08/893,749  
34 (B) FILING DATE: 11-Jul-1997

36 (viii) ATTORNEY/AGENT INFORMATION:

37 (A) NAME: Saxe, Bern D.  
38 (B) REGISTRATION NUMBER: 28,665  
39 (C) REFERENCE/DOCKET NUMBER: 018733/0804

41 (ix) TELECOMMUNICATION INFORMATION:

42 (A) TELEPHONE: (202) 672-5300  
43 (B) TELEFAX: (202) 672-5399

46 (2) INFORMATION FOR SEQ ID NO: 1:

48 (i) SEQUENCE CHARACTERISTICS:

49 (A) LENGTH: 7 amino acids  
50 (B) TYPE: amino acid  
51 (C) STRANDEDNESS:  
52 (D) TOPOLOGY: linear

54 (ii) MOLECULE TYPE: peptide

57 (ix) FEATURE:

58 (A) NAME/KEY: Modified-site

59 (B) LOCATION: 1

60 (D) OTHER INFORMATION: /product= "Nle"

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62      (ix) FEATURE:
63          (A) NAME/KEY: Modified-site
64          (B) LOCATION: 4
65          (D) OTHER INFORMATION: /note= "Xaa is D-Phe"
68      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:
W--> 70      Xaa Asp His Xaa Arg Trp Lys
71          1          5
73  (2) INFORMATION FOR SEQ ID NO: 2:
75      (i) SEQUENCE CHARACTERISTICS:
76          (A) LENGTH: 28 amino acids
77          (B) TYPE: amino acid
78          (C) STRANDEDNESS:
79          (D) TOPOLOGY: linear
81      (ii) MOLECULE TYPE: peptide
86      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:
88      His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
89          1          5          10          15
91      Met Ala Val Lys Lys Tyr Leu Asn Ser Ile Leu Asn
92          20          25
94  (2) INFORMATION FOR SEQ ID NO: 3:
96      (i) SEQUENCE CHARACTERISTICS:
97          (A) LENGTH: 28 amino acids
98          (B) TYPE: amino acid
99          (C) STRANDEDNESS:
100         (D) TOPOLOGY: linear
102      (ii) MOLECULE TYPE: peptide
107      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:
109      Lys Pro Arg Arg Pro Tyr Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
110          1          5          10          15
112      Met Ala Val Lys Lys Tyr Leu Asn Ser Ile Leu Asn
113          20          25
115  (2) INFORMATION FOR SEQ ID NO: 4:
117      (i) SEQUENCE CHARACTERISTICS:
118          (A) LENGTH: 24 amino acids
119          (B) TYPE: amino acid
120          (C) STRANDEDNESS:
121          (D) TOPOLOGY: linear
123      (ii) MOLECULE TYPE: peptide
128      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:
130      Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln Met Ala Val Lys
131          1          5          10          15
133      Lys Tyr Leu Asn Ser Ile Leu Asn
134          20
136  (2) INFORMATION FOR SEQ ID NO: 5:
138      (i) SEQUENCE CHARACTERISTICS:
139          (A) LENGTH: 19 amino acids
140          (B) TYPE: amino acid
141          (C) STRANDEDNESS:
142          (D) TOPOLOGY: linear

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Output Set: N:\CRF3\07222002\I676783.raw

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144      (ii) MOLECULE TYPE: peptide
149      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:
151      Tyr Thr Arg Leu Arg Lys Gln Met Ala Val Lys Lys Tyr Leu Asn Ser
152      1             5             10             15
154      Ile Leu Asn
157 (2) INFORMATION FOR SEQ ID NO: 6:
159      (i) SEQUENCE CHARACTERISTICS:
160          (A) LENGTH: 10 amino acids
161          (B) TYPE: amino acid
162          (C) STRANDEDNESS:
163          (D) TOPOLOGY: linear
165      (ii) MOLECULE TYPE: peptide
168      (ix) FEATURE:
169          (A) NAME/KEY: Modified-site
170          (B) LOCATION: 1
171          (D) OTHER INFORMATION: /note= "Xaa is pyroglutamic acid"
174      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:
W--> 176      Xaa His Trp Ser Tyr Lys Leu Arg Pro Gly
177      1             5             10
179 (2) INFORMATION FOR SEQ ID NO: 7:
181      (i) SEQUENCE CHARACTERISTICS:
182          (A) LENGTH: 10 amino acids
183          (B) TYPE: amino acid
184          (C) STRANDEDNESS:
185          (D) TOPOLOGY: linear
187      (ii) MOLECULE TYPE: peptide
190      (ix) FEATURE:
191          (A) NAME/KEY: Modified-site
192          (B) LOCATION: 1
193          (D) OTHER INFORMATION: /note= "Xaa is pyroglutamic acid"
196      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7:
W--> 198      Xaa His Tyr Ser Leu Lys Trp Lys Pro Gly
199      1             5             10
201 (2) INFORMATION FOR SEQ ID NO: 8:
203      (i) SEQUENCE CHARACTERISTICS:
204          (A) LENGTH: 10 amino acids
205          (B) TYPE: amino acid
206          (C) STRANDEDNESS:
207          (D) TOPOLOGY: linear
209      (ii) MOLECULE TYPE: peptide
212      (ix) FEATURE:
213          (A) NAME/KEY: Modified-site
214          (B) LOCATION: 1
215          (D) OTHER INFORMATION: /note= "D isomer of
216 2-naphthylalanine"
218      (ix) FEATURE:
219          (A) NAME/KEY: Modified-site
220          (B) LOCATION: 2
221          (D) OTHER INFORMATION: /note= "D isomer of

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Input Set : N:\RULE60\VERNETTE\_R60\09676783.raw

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```

222 4-chlorophenylalanine"
224     (ix) FEATURE:
225         (A) NAME/KEY: Modified-site
226         (B) LOCATION: 3
227         (D) OTHER INFORMATION: /note= "Xaa is D-Trp"
229     (ix) FEATURE:
230         (A) NAME/KEY: Modified-site
231         (B) LOCATION: 6
232         (D) OTHER INFORMATION: /note= "Xaa is D-Lys"
234     (ix) FEATURE:
235         (A) NAME/KEY: Modified-site
236         (B) LOCATION: 10
237         (D) OTHER INFORMATION: /note= "Xaa is D-Ala"
240     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8:
W--> 242     Xaa Xaa Xaa Ser Arg Xaa Leu Arg Pro Xaa
243         1             5             10
245 (2) INFORMATION FOR SEQ ID NO: 9:
247     (i) SEQUENCE CHARACTERISTICS:
248         (A) LENGTH: 10 amino acids
249         (B) TYPE: amino acid
250         (C) STRANDEDNESS:
251         (D) TOPOLOGY: linear
253     (ii) MOLECULE TYPE: peptide
256     (ix) FEATURE:
257         (A) NAME/KEY: Modified-site
258         (B) LOCATION: 4
259         (D) OTHER INFORMATION: /product= "Nle"
261     (ix) FEATURE:
262         (A) NAME/KEY: Modified-site
263         (B) LOCATION: 7
264         (D) OTHER INFORMATION: /note= "Xaa is D-Phe"
267     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 9:
W--> 269     Ser Tyr Ser Xaa Asp His Xaa Arg Trp Lys
270         1             5             10
272 (2) INFORMATION FOR SEQ ID NO: 10:
274     (i) SEQUENCE CHARACTERISTICS:
275         (A) LENGTH: 31 amino acids
276         (B) TYPE: amino acid
277         (C) STRANDEDNESS:
278         (D) TOPOLOGY: linear
280     (ii) MOLECULE TYPE: peptide
283     (ix) FEATURE:
284         (A) NAME/KEY: Modified-site
285         (B) LOCATION: 17
286         (D) OTHER INFORMATION: /product= "Nle"
289     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 10:
291     His Ser Asp Ala Val Phe Thr Glu Asn Tyr Thr Lys Leu Arg Lys Gln
292         1             5             10             15
W--> 294     Xaa Ala Ala Lys Lys Tyr Leu Asn Asp Leu Lys Lys Gly Gly Thr

```

## RAW SEQUENCE LISTING

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Input Set : N:\RULE60\VERNETTE\_R60\09676783.raw

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295                20                25                30
297 (2) INFORMATION FOR SEQ ID NO: 11:
299   (i) SEQUENCE CHARACTERISTICS:
300       (A) LENGTH: 11 amino acids
301       (B) TYPE: amino acid
302       (C) STRANDEDNESS:
303       (D) TOPOLOGY: linear
305   (ii) MOLECULE TYPE: peptide
308   (ix) FEATURE:
309       (A) NAME/KEY: Modified-site
310       (B) LOCATION: 1
311       (D) OTHER INFORMATION: /note= "Xaa is pyroglutamic acid"
314   (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 11:
W--> 316   Xaa His Tyr Ser Tyr Leu Lys Trp Lys Pro Gly
317       1                5                10
319 (2) INFORMATION FOR SEQ ID NO: 12:
321   (i) SEQUENCE CHARACTERISTICS:
322       (A) LENGTH: 10 amino acids
323       (B) TYPE: amino acid
324       (C) STRANDEDNESS:
325       (D) TOPOLOGY: linear
327   (ii) MOLECULE TYPE: peptide
330   (ix) FEATURE:
331       (A) NAME/KEY: Modified-site
332       (B) LOCATION: 1
333       (D) OTHER INFORMATION: /note= "D isomer of
334 2-naphthylalanine"
336   (ix) FEATURE:
337       (A) NAME/KEY: Modified-site
338       (B) LOCATION: 2
339       (D) OTHER INFORMATION: /note= "D isomer of
340 4-chlorophenylalanine"
342   (ix) FEATURE:
343       (A) NAME/KEY: Modified-site
344       (B) LOCATION: 3
345       (D) OTHER INFORMATION: /note= "Xaa is D-Trp"
347   (ix) FEATURE:
348       (A) NAME/KEY: Modified-site
349       (B) LOCATION: 6
350       (D) OTHER INFORMATION: /note= "Xaa is D-Lys"
354   (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 12:
W--> 356   Xaa Xaa Xaa Ser Arg Xaa Trp Lys Pro Gly
357       1                5                10
359 (2) INFORMATION FOR SEQ ID NO: 13:
361   (i) SEQUENCE CHARACTERISTICS:
362       (A) LENGTH: 10 amino acids
363       (B) TYPE: amino acid
364       (C) STRANDEDNESS:
365       (D) TOPOLOGY: linear

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RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/09/676,783DATE: 07/22/2002  
TIME: 10:30:42Input Set : N:\RULE60\VERNETTE\_R60\09676783.raw  
Output Set: N:\CRF3\07222002\I676783.rawPlease Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; Xaa Pos.1,4  
Seq#:6; Xaa Pos.1  
Seq#:7; Xaa Pos.1  
Seq#:8; Xaa Pos.1,2,3,6,10  
Seq#:9; Xaa Pos.4,7  
Seq#:10; Xaa Pos.17  
Seq#:11; Xaa Pos.1  
Seq#:12; Xaa Pos.1,2,3,6  
Seq#:13; Xaa Pos.1,6  
Seq#:14; Xaa Pos.2,5  
Seq#:15; Xaa Pos.3,6  
Seq#:16; Xaa Pos.2,5  
Seq#:17; Xaa Pos.4,7  
Seq#:18; Xaa Pos.4,7  
Seq#:19; Xaa Pos.4,7  
Seq#:20; Xaa Pos.3,6  
Seq#:21; Xaa Pos.1,4  
Seq#:24; Xaa Pos.1  
Seq#:25; Xaa Pos.1,2,3,6  
Seq#:26; Xaa Pos.1,6  
Seq#:27; Xaa Pos.1,6  
Seq#:29; Xaa Pos.4,7,8  
Seq#:30; Xaa Pos.3,6  
Seq#:31; Xaa Pos.4,7  
Seq#:32; Xaa Pos.17  
Seq#:33; Xaa Pos.1  
Seq#:34; Xaa Pos.4,7

## VERIFICATION SUMMARY

PATENT APPLICATION: US/09/676,783

DATE: 07/22/2002

TIME: 10:30:42

Input Set : N:\RULE60\VERNETTE\_R60\09676783.raw

Output Set: N:\CRF3\07222002\I676783.raw

L:28 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]  
L:29 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]  
L:70 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0  
L:176 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:0  
L:198 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:0  
L:242 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:0  
L:269 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:0  
L:294 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:16  
L:316 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:0  
L:356 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:0  
L:383 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:0  
L:410 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:0  
L:437 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:0  
L:464 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:0  
L:491 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:0  
L:518 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:0  
L:545 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19 after pos.:0  
L:572 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20 after pos.:0  
L:599 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21 after pos.:0  
L:663 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24 after pos.:0  
L:703 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25 after pos.:0  
L:730 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26 after pos.:0  
L:757 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27 after pos.:0  
L:808 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29 after pos.:0  
L:835 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:30 after pos.:0  
L:862 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31 after pos.:0  
L:887 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:32 after pos.:16  
L:909 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:33 after pos.:0  
L:936 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:34 after pos.:0